Contents Volume 123, 1996

Research Papers

Gas exchange, hypercarbia and acid–base balance, paleoecology, and the evolutionary transition from water-breathing to air-breathing among vertebrates
G.R. Ultsch 1
Holocene sea-level change and hydro-isostasy along the west coast of Kyushu, Japan
Y. Yokoyama, M. Nakada, Y. Maeda, S. Nagaoka, J. Okuno, E. Matsumoto, H. Sato, Y. Matsushima 29
Coastal forms and Quaternary processes along the arid Pilbara coast of northwestern Australia
V. Semeniuk 49
Modern and palaeo-oceanographic environments under Benguela upwelling cells off southern Namibia
R.V. Dingle, J.M. Bremner, J. Giraudeau, D. Buhmann 85
Southern Westerlies during the Holocene deduced from geomorphological and pedological studies in the Norte Chico, Northern Chile (27–33°S)
H. Veit 107
Northern Europe climate variations during late Holocene: evidence from marine Skagerrak
H.C. Hass 121
Paleoclimatic implications of late Pleistocene sediment yield rates for the Bonneville Basin, northern Utah
D.R. Lemons, M.R. Milligan, M.A. Chan 147
The Late Quaternary palaeoenvironmental history of a presently deep freshwater lake in east-central Alberta, Canada and palaeoclimate implications
M. Hickman, C.E. Schweger 161
A 100 ka record of water tables and paleoclimates from salt cores, Death Valley, California
J. Li, T.K. Lowenstein, C.B. Brown, T-L. Ku, S. Luo 179
Holocene palaeoecology of the northern Flinders Ranges, South Australia, based on stick-nest rat (*Leporillus* spp.) middens: a preliminary overview
L. McCarthy, L. Head, J. Quade 205
The stable oxygen and carbon isotopic record from a coral growing in Florida Bay: a 160 year record of climatic and anthropogenic influence
P.K. Swart, G.F. Healy, R.E. Dodge, P. Kramer, J.H. Hudson, R.B. Halley, M.B. Robblee 219
The last 50,000 years in the Neotropics (Southern Brazil): evolution of vegetation and climate
M-P. Ledru, P.I.S. Braga, F. Soubiès, M. Fournier, L. Martin, K. Suguio, B. Turcq 239
Test of climate-leaf physiognomy regression models, their application to two Miocene floras from Kenya, and $^{40}Ar/^{39}Ar$ dating of the Late Miocene Kapturo site
B.F. Jacobs, A.L. Deino 259
Zoophycos distribution and sequence stratigraphy. Examples from the Jurassic and Cretaceous deposits of southeastern France
D. Olivero 273
Sequence stratigraphy of the Frasnian–Famennian transitional strata: a comparison between South China and southern Belgium
Ph. Muchez, F. Boulvain, R. Dreesen, H.F. Hou 289
Late Devonian–Early Carboniferous deep-water coral assemblages and sedimentation on a Devonian seamount: Iberg Reef, Harz Mts., Germany
E. Gischler 297
Spine asymmetry in chonetoidean brachiopods: an example of reiterated heterochronies linked to intra-Devonian events
P.R. Racheboeuf, J-P. Garcia 323
Boreholes in the Middle Devonian blastoid *Heteroschisma* and their implications for gastropod drilling
T. K. Baumiller 343
Millennial-scale climate origins for stratification in Cambrian and Devonian deep-water rhythmites, western USA
M. Elrick, L.A. Hinnov 353
Temporal relationship between cratonization and glaciation: The Vendian–early Cambrian glaciation in Western Gondwana
R. Trompette 373
The changing course of the Orinoco River during the Neogene: a review
M.L. Díaz de Gamero 385